

**SEQUENCE LISTING**

<110> Strachan, Lorna  
Sleeman, Matthew  
Abernethy, Nevin  
Onrust, Rene  
Kumble, Anand  
Murison, Greg

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and methods for their use

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Leu Thr Pro His Tyr Val Met Leu Leu Gly Ala Val Leu Leu Leu

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ggc tct gtg ctc ctg ggc atc act gtg tgc tgc tac tgc tgc cgc Gly Ser Val Leu Leu Gly Ile Thr Val Cys Cys Cys Tyr Cys Cys Arg 105 110 115	391
cgg aag aag agc cgg aag cca gac aag agc gat gag cgg gcc atg aga Arg Lys Lys Ser Arg Lys Pro Asp Lys Ser Asp Glu Arg Ala Met Arg 120 125 130 135	439
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Phe Ser Gln Arg Ser Arg Met Val Ala Ala Gly Ala Gly Val Thr Arg						
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Gly Ser Gly Cys Arg Val Gly Ala Ser Ala Arg Gly Thr Gly Ala Asp						
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Gly Arg Glu Ala Glu Gly Cys Gly Thr Val Ala Leu Leu Leu Glu His						
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Ser Phe Glu Leu Gly Asp Gly Ala Asn Phe Gln Lys Arg Gly Leu Leu						
35	40			45		
ctc tgg aac cag cag gat ggc acc ctg tcg gca aca cag cga cag ctc						345
Leu Trp Asn Gln Gln Asp Gly Thr Leu Ser Ala Thr Gln Arg Gln Leu						
50	55			60		65
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Ser Glu Glu Glu Arg Gly Arg Leu Arg Asp Val Ala Ala Val Asn Gly						
70	75			80		
ctc tac agg gtc cgg gtc ccg agg cgg cct ggg aca ctt gat ggt tca						441
Leu Tyr Arg Val Arg Val Pro Arg Arg Pro Gly Thr Leu Asp Gly Ser						
85	90			95		
gaa gct ggc ggc cat gtg tct tcc ttc gtc cca gcg tgc tcc ctg gtg						489
Glu Ala Glv Glv His Val Ser Ser Phe Val Pro Ala Cys Ser Leu Val						

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aac gtg gtg ggc ctg tct gtg gtg tac cct ggg ggc tgc cgg ggc Asn Val Val Gly Leu Ser Val Val Val Tyr Pro Gly Gly Cys Arg Gly	130	135	140	585
tcc gag gtg gaa gat gag gac ctg gag ctg ttc aat aca tct gtg cag Ser Glu Val Glu Asp Glu Asp Leu Glu Leu Phe Asn Thr Ser Val Glu	150	155	160	633
ctg cgg cct ccc agc act gct cca ggc ccc gag act gca gcc ttc att Leu Arg Pro Pro Ser Thr Ala Pro Gly Pro Glu Thr Ala Ala Phe Ile	165	170	175	681
gag cgc ctg gag atg gag cag gcc cag aag gcc aag aac cca cag gag Glu Arg Leu Glu Met Glu Gln Ala Gln Lys Ala Lys Asn Pro Gln Glu	180	185	190	729
cag aag tct ttc ttt gcc aaa tac tgg atg tac atc att cca gtt gtg Gln Lys Ser Phe Phe Ala Lys Tyr Trp Met Tyr Ile Ile Pro Val Val	195	200	205	777
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				Met	Asp Phe Leu	

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gtt ctc ttc ttg ttc tac ttg gcc ttc tta ttg att tgt gtt gtc ctg 405
Val Leu Phe Leu Phe Tyr Leu Ala Phe Leu Leu Ile Cys Val Val Leu
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Ile Cys Ile Phe Thr Lys Ser Gln Arg Leu Lys Ala Val Val Leu Gly
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gga gca cag gta gca ctg gtc ctt ggg tac tgc ccg gat gtg aat act      501
Gly Ala Gln Val Ala Leu Val Leu Gly Tyr Cys Pro Asp Val Asn Thr
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gcg gcc ccg gga gac ggt ccg ggt ggt ggt ggc agt ggc ggc ctg agc Ala Ala Pro Gly Asp Gly Pro Gly Gly Ser Gly Ser Gly Leu Ser 35 40 45	193
cct gaa cct tcc gat cgg gag ctg gtc tcc aaa gca gag cat ctt cga Pro Glu Pro Ser Asp Arg Glu Leu Val Ser Lys Ala Glu His Leu Arg 50 55 60 65	241
gaa agc aac gga cat ttg att tct gag agc aaa gat ctt ggt aac ctg Glu Ser Asn Gly His Leu Ile Ser Glu Ser Lys Asp Leu Gly Asn Leu 70 75 80	289
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-20

-15

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<221> sig\_peptide

<222> (13) ... (90)

<400> 10

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Met Arg Ser Gly Ala Leu Trp Pro Leu Leu Trp Gly Ala  
-25 -20 -15

51

ctg gtc tgg aca gtg gga tcc gtg ggc gcc gtg atg ggc tcc gag gat  
Leu Val Trp Thr Val Gly Ser Val Gly Ala Val Met Gly Ser Glu Asp  
-10 -5 1

99

tct gtg ccc ggt ggc gtg tgc tgg ctc cag cag ggc aga gag gcc acc  
Ser Val Pro Gly Gly Val Cys Trp Leu Gln Gln Gly Arg Glu Ala Thr  
5 10 15

147

tgc agt ctg gtg ctg aag act cgt gtc agc cgg gag gag tgc tgt gct  
Cys Ser Leu Val Leu Lys Thr Arg Val Ser Arg Glu Glu Cys Cys Ala  
20 25 30 35

195

tcc ggc aac atc aac acc gcc tgg tcc aac ttc acc cac cca ggc aat  
Ser Gly Asn Ile Asn Thr Ala Trp Ser Asn Phe Thr His Pro Gly Asn  
40 45 50

243

aaa atc agc ctg cta ggg ttc ctg ggc ctc gtc cac tgc ctc ccc tgc  
Lys Ile Ser Leu Leu Gly Phe Leu Gly Leu Val His Cys Leu Pro Cys  
55 60 65

291

aaa gat tcc tgc gac gga gtg gag tgc ggc ccc ggc aag gcg tgc cgc  
Lys Asp Ser Cys Asp Gly Val Glu Cys Gly Pro Gly Lys Ala Cys Arg  
70 75 80

339

aat gct ggg ggg gcg tcc aac aac tgc gag tgc gtg ccc aac tgc gag  
Asn Ala Gly Gly Ala Ser Asn Asn Cys Glu Cys Val Pro Asn Cys Glu  
85 90 95

387

ggg ttt ccc gcg ggc ttc cag gtc tgc ggc tct gat ggc gcc acc tac  
Gly Phe Pro Ala Gly Phe Gln Val Cys Gly Ser Asp Gly Ala Thr Tyr  
100 105 110 115

435

cgg gac gaa tgc gaa ctg cgc acc gcg cgc tgt cgc gga cac cca gac  
Arg Asp Glu Cys Glu Leu Arg Thr Ala Arg Cys Arg Gly His Pro Asp  
120 125 130

483

ttg cgc gtc atg tac cgc ggc cgc tgt caa aag tct tgc gct cag gta  
Leu Arg Val Met Tyr Arg Gly Arg Cys Gln Lys Ser Cys Ala Gln Val  
135 140 145

531

gtg tgc ccg cgt ccc cag tcg tgc ctt gtg gat cag acc ggc agc gca  
Val Cys Pro Arg Pro Gln Ser Cys Leu Val Asp Gln Thr Gly Ser Ala  
150 155 160

579

cac tgc gtg gtg tgt cgc gct gcg ccc tgc cca gta cct tcc aac ccc  
His Cys Val Val Cys Arg Ala Ala Pro Cys Pro Val Pro Ser Asn Pro  
165 170 175

627

ggc caa gaa ctc tgt ggc aac aac aac gtt acc tac atc tcg tcg tgt      675  
 Gly Gln Glu Leu Cys Gly Asn Asn Asn Val Thr Tyr Ile Ser Ser Cys  
 180                185                190                195  
  
 cac ctg cgc cag gcc act tgc ttc ctg ggc cgc tcc att ggg gtt cgg      723  
 His Leu Arg Gln Ala Thr Cys Phe Leu Gly Arg Ser Ile Gly Val Arg  
 200                205                210  
  
 cac cca ggc atc tgc aca ggt ggc ccc aag ttc ctg aag tct ggc gat      771  
 His Pro Gly Ile Cys Thr Gly Gly Pro Lys Phe Leu Lys Ser Gly Asp  
 215                220                225  
  
 gct gcc att gtt gat atg gtc cct ggc aag ccc atg tgt gtt gag agc      819  
 Ala Ala Ile Val Asp Met Val Pro Gly Lys Pro Met Cys Val Glu Ser  
 230                235                240  
  
 ttc tct gac tac cct cca ctt ggt cgc ttt gct gtt cgt gac atg agg      867  
 Phe Ser Asp Tyr Pro Pro Leu Gly Arg Phe Ala Val Arg Asp Met Arg  
 245                250                255  
  
 cag aca gtt gct gtg ggt gtc atc aaa gct gtg gac aag aag gct gct      915  
 Gln Thr Val Ala Val Gly Val Ile Lys Ala Val Asp Lys Lys Ala Ala  
 260                265                270                275  
  
 gga gct ggc aaa gtc acc aag tct gcc cag aaa gct cag aag gct aaa      963  
 Gly Ala Gly Lys Val Thr Lys Ser Ala Gln Lys Ala Gln Lys Ala Lys  
 280                285                290  
  
 tgaatattac ccctaaccacc tgccacccca gtcttaatca gtgggtggaa aacggctctca      1023  
 gaactgtttg tctcaattgg ccatattaatg ttaatagtagaa aagactgggtt aatgataaca  
 atgcatacgta aaacccctcag aaggaaagaa tgggtgtggac cattt      1083  
 1129  
  
 <210> 11  
 <211> 196  
 <212> PRT  
 <213> Mouse  
  
 <400> 11  
 Val Leu Asn Gly Ser Ile Ser Pro Leu Trp Ala Val Ala Pro Thr Leu  
 1                5                10                15  
 Gln Val Leu Ser Leu Arg Asp Val Gly Leu Gly Ser Gly Ala Ala Glu  
 20                25                30  
 Met Asp Phe Ser Ala Phe Gly Asn Leu Arg Ala Leu Asp Leu Ser Gly  
 35                40                45  
 Asn Ser Leu Thr Ser Phe Gln Lys Phe Lys Gly Ser Leu Ala Leu Arg  
 50                55                60  
 Thr Leu Asp Leu Arg Arg Asn Ser Leu Thr Ala Leu Pro Gln Arg Val  
 65                70                75                80  
 Val Ser Glu Gln Pro Leu Arg Gly Leu Gln Thr Ile Tyr Leu Ser Gln  
 85                90                95  
 Asn Pro Tyr Asp Cys Cys Gly Val Glu Gly Trp Gly Ala Leu Gln Gln  
 100                105                110  
 His Phe Lys Thr Val Ala Asp Leu Ser Met Val Thr Cys Asn Leu Ser  
 115                120                125  
 Ser Lys Ile Val Arg Val Val Glu Leu Pro Glu Gly Leu Pro Gln Gly  
 130                135                140

Cys Lys Trp Glu Gln Val Asp Thr Gly Leu Phe Tyr Leu Val Leu Ile  
145 150 155 160  
Leu Pro Ser Cys Leu Thr Leu Leu Val Ala Cys Thr Val Val Phe Leu  
165 170 175  
Thr Phe Lys Lys Pro Leu Leu Gln Val Ile Lys Ser Arg Cys His Trp  
180 185 190  
Ser Ser Ile Tyr  
195

<210> 12  
<211> 174  
<212> PRT  
<213> Mouse

<400> 12  
Met Ala Pro Ala Asn Leu Gly Leu Thr Pro His Trp Val Met Leu Leu  
1 5 10 15  
Gly Ala Val Leu Leu Leu Leu Ser Gly Ala Ser Ala Gln Glu Pro  
20 25 30  
Pro Arg Val Gly Cys Ser Glu Tyr Thr Asn Arg Ser Cys Glu Glu Cys  
35 40 45  
Leu Arg Asn Val Ser Cys Leu Trp Cys Asn Glu Asn Lys Ala Cys Met  
50 55 60  
Asp Tyr Pro Val Arg Lys Ile Leu Pro Pro Ala Ser Leu Cys Lys Leu  
65 70 75 80  
Ser Ser Ala Arg Trp Gly Val Cys Trp Val Asn Phe Glu Ala Leu Ile  
85 90 95  
Ile Thr Met Ser Val Leu Gly Gly Ser Val Leu Leu Gly Ile Thr Val  
100 105 110  
Cys Cys Cys Tyr Cys Cys Arg Arg Lys Lys Ser Arg Lys Pro Asp Lys  
115 120 125  
Ser Asp Glu Arg Ala Met Arg Glu Gln Glu Glu Arg Arg Val Arg Gln  
130 135 140  
Glu Glu Arg Arg Ala Glu Met Lys Ser Arg His Asp Glu Ile Arg Lys  
145 150 155 160  
Lys Tyr Gly Leu Phe Lys Glu Gln Asn Pro Tyr Glu Lys Phe  
165 170

<210> 13  
<211> 106  
<212> PRT  
<213> Mouse

<400> 13  
Ala Pro Gly Lys Pro Cys Arg Gly Leu Ser His Arg Thr Cys Ile Leu  
1 5 10 15  
Arg Cys Arg Pro Met Pro Leu Phe Thr His Pro Ser Pro Cys His Leu  
20 25 30  
Cys Gly Pro Cys Ser Thr Thr Ser Pro Ser Thr Trp Val Leu Cys Pro  
35 40 45  
Leu Pro Met Ser Pro Leu Cys Pro Thr Cys Val Ser Thr Met Thr Leu  
50 55 60  
Ala Thr Cys Thr Cys Pro Trp Ser Thr Thr Cys Pro Cys Thr Leu Ala  
65 70 75 80  
Pro Asn His Gly Ile Ala Ser Asp Thr Gln Ser Pro Val Ser Arg Ala  
85 90 95  
Glu Ser Val Gly Gly Pro Ser Leu Ile Phe

100

105

<210> 14  
<211> 268  
<212> PRT  
<213> Mouse

<400> 14

Met Ala Leu Gly Phe Ser Gln Arg Ser Arg Met Val Ala Ala Gly Ala  
1 5 10 15  
Gly Val Thr Arg Leu Leu Val Leu Leu Leu Met Val Ala Ala Ala Pro  
20 25 30  
Ser Arg Ala Arg Gly Ser Gly Cys Arg Val Gly Ala Ser Ala Arg Gly  
35 40 45  
Thr Gly Ala Asp Gly Arg Glu Ala Glu Gly Cys Gly Thr Val Ala Leu  
50 55 60  
Leu Leu Glu His Ser Phe Glu Leu Gly Asp Gly Ala Asn Phe Gln Lys  
65 70 75 80  
Arg Gly Leu Leu Leu Trp Asn Gln Gln Asp Gly Thr Leu Ser Ala Thr  
85 90 95  
Gln Arg Gln Leu Ser Glu Glu Arg Gly Arg Leu Arg Asp Val Ala  
100 105 110  
Ala Val Asn Gly Leu Tyr Arg Val Arg Val Pro Arg Arg Pro Gly Thr  
115 120 125  
Leu Asp Gly Ser Glu Ala Gly His Val Ser Ser Phe Val Pro Ala  
130 135 140  
Cys Ser Leu Val Glu Ser His Leu Ser Asp Gln Leu Thr Leu His Val  
145 150 155 160  
Asp Val Ala Gly Asn Val Val Gly Leu Ser Val Val Val Tyr Pro Gly  
165 170 175  
Gly Cys Arg Gly Ser Glu Val Glu Asp Glu Asp Leu Glu Leu Phe Asn  
180 185 190  
Thr Ser Val Gln Leu Arg Pro Pro Ser Thr Ala Pro Gly Pro Glu Thr  
195 200 205  
Ala Ala Phe Ile Glu Arg Leu Glu Met Glu Gln Ala Gln Lys Ala Lys  
210 215 220  
Asn Pro Gln Glu Gln Lys Ser Phe Phe Ala Lys Tyr Trp Met Tyr Ile  
225 230 235 240  
Ile Pro Val Val Leu Phe Leu Met Met Ser Gly Ala Pro Asp Ala Gly  
245 250 255  
Gly Gln Gly Gly Gly Gly Gly Ser Ser Arg  
260 265

<210> 15

<211> 66  
<212> PRT  
<213> Mouse

<400> 15

Met Asp Phe Leu Val Leu Phe Leu Phe Tyr Leu Ala Phe Leu Leu Ile  
1 5 10 15  
Cys Val Val Leu Ile Cys Ile Phe Thr Lys Ser Gln Arg Leu Lys Ala  
20 25 30  
Val Val Leu Gly Gly Ala Gln Val Ala Leu Val Leu Gly Tyr Cys Pro  
35 40 45  
Asp Val Asn Thr Val Leu Gly Ala Ser Leu Glu Gly Ser Gln Asp Lys  
50 55 60

Gly Met

65

<210> 16  
<211> 338  
<212> PRT  
<213> Mouse

<400> 16

Met Gly Ala Val Trp Ser Ala Leu Leu Val Gly Gly Gly Leu Ala Gly  
1 5 10 15  
Ala Leu Ile Leu Trp Leu Leu Arg Gly Asp Ser Gly Ala Pro Gly Lys  
20 25 30  
Asp Gly Val Ala Glu Pro Pro Gln Lys Gly Ala Pro Pro Gly Glu Ala  
35 40 45  
Ala Ala Pro Pro Gly Asp Gly Pro Gly Gly Ser Gly Gly Leu Ser  
50 55 60  
Pro Glu Pro Ser Asp Arg Glu Leu Val Ser Lys Ala Glu His Leu Arg  
65 70 75 80  
Glu Ser Asn Gly His Leu Ile Ser Glu Ser Lys Asp Leu Gly Asn Leu  
85 90 95  
Pro Glu Ala Gln Arg Leu Gln Asn Val Gly Ala Asp Trp Val Asn Ala  
100 105 110  
Arg Glu Phe Val Pro Val Gly Lys Ile Pro Asp Thr His Ser Arg Ala  
115 120 125  
Asp Ser Glu Ala Ala Arg Asn Gln Ser Pro Gly Ser His Gly Gly Glu  
130 135 140  
Trp Arg Leu Pro Lys Gly Gln Glu Thr Ala Val Lys Val Ala Gly Ser  
145 150 155 160  
Val Ala Ala Lys Leu Ala Ser Ser Ser Leu Leu Val Asp Arg Ala Lys  
165 170 175  
Ala Val Ser Gln Asp Gln Ala Gly His Glu Asp Trp Glu Val Val Ser  
180 185 190  
Arg His Ser Ser Trp Gly Ser Val Gly Leu Gly Gly Ser Leu Glu Ala  
195 200 205  
Ser Arg Leu Ser Leu Asn Gln Arg Met Asp Asp Ser Thr Asn Ser Leu  
210 215 220  
Val Gly Gly Arg Gly Trp Glu Val Asp Gly Lys Val Ala Ser Leu Lys  
225 230 235 240  
Pro Gln Gln Val Ser Ile Gln Phe Gln Val His Tyr Thr Thr Asn Thr  
245 250 255  
Asp Val Gln Phe Ile Ala Val Thr Gly Asp His Glu Ser Leu Gly Arg  
260 265 270  
Trp Asn Thr Tyr Ile Pro Leu His Tyr Cys Lys Asp Gly Leu Trp Ser  
275 280 285  
His Ser Val Phe Leu Pro Ala Asp Thr Val Val Glu Trp Lys Phe Val  
290 295 300  
Leu Val Glu Asn Lys Glu Val Thr Arg Trp Glu Glu Cys Ser Asn Arg  
305 310 315 320  
Phe Leu Gln Thr Gly His Glu Asp Lys Val Val His Gly Trp Trp Gly  
325 330 335  
Ile His

<210> 17  
<211> 119  
<212> PRT

88295260  
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**<213> Mouse**

<400> 17

Gly Thr Ser Pro Ala Ser Val Leu Arg Ser Val Ser Ser Asp Pro Ser  
1 5 10 15  
Leu Pro Pro Pro Ser Met Ala Ser Leu Leu Cys Cys Gly Pro Lys Leu  
20 25 30  
Ala Ala Cys Gly Ile Val Leu Ser Ala Trp Gly Val Ile Met Leu Ile  
35 40 45  
Met Leu Gly Ile Phe Phe Asn Val His Ser Ala Val Leu Ile Glu Asp  
50 55 60  
Val Pro Phe Thr Glu Lys Asp Phe Glu Asn Gly Pro Gln Asn Ile Tyr  
65 70 75 80  
Asn Leu Tyr Glu Gln Val Ser Tyr Asn Cys Phe Ile Ala Ala Gly Leu  
85 90 95  
Tyr Leu Leu Leu Gly Gly Phe Ser Phe Cys Gln Val Arg Leu Asn Lys  
100 105 110  
Arg Lys Glu Tyr Met Val Arg  
115

<210> 18

<211> 280

<212> PRT

**<213> Mouse**

<400> 18

Met Val Pro Trp Phe Leu Leu Ser Leu Leu Leu Ala Arg Pro Val  
1 5 10 15  
Pro Gly Val Ala Tyr Ser Val Ser Leu Pro Ala Ser Phe Leu Glu Asp  
20 25 30  
Val Ala Gly Ser Gly Glu Ala Glu Gly Ser Ser Ala Ser Ser Pro Ser  
35 40 45  
Leu Pro Pro Pro Gly Thr Pro Ala Phe Ser Pro Thr Pro Glu Arg Pro  
50 55 60  
Gln Pro Thr Ala Leu Asp Gly Pro Val Pro Pro Thr Asn Leu Leu Glu  
65 70 75 80  
Gly Ile Met Asp Phe Phe Arg Gln Tyr Val Met Leu Ile Ala Val Val  
85 90 95  
Gly Ser Leu Thr Phe Leu Ile Met Phe Ile Val Cys Ala Ala Leu Ile  
100 105 110  
Thr Arg Gln Lys His Lys Ala Thr Ala Tyr Tyr Pro Ser Ser Phe Pro  
115 120 125  
Glu Lys Lys Tyr Val Asp Gln Arg Asp Arg Ala Gly Gly Pro Arg Thr  
130 135 140  
Phe Ser Glu Val Pro Asp Arg Ala Pro Asp Ser Arg His Glu Glu Gly  
145 150 155 160  
Leu Asp Thr Ser His Gln Leu Gln Ala Asp Ile Leu Ala Ala Thr Gln  
165 170 175  
Asn Leu Arg Ser Pro Ala Arg Ala Leu Pro Gly Asn Gly Glu Gly Ala  
180 185 190  
Lys Pro Val Lys Gly Gly Ser Glu Glu Glu Glu Glu Val Leu Ser  
195 200 205  
Gly Gln Glu Ala Gln Glu Ala Pro Val Cys Gly Val Thr Glu Glu  
210 215 220  
Lys Leu Gly Val Pro Glu Glu Ser Val Ser Ala Glu Ala Glu Gly Val  
225 230 235 240  
Pro Ala Thr Ser Glu Gly Gln Gly Glu Ala Glu Gly Ser Phe Ser Leu

卷之三

245	250	255
Ala Gln Glu Ser Gln Gly Ala Thr Gly Pro Pro Glu Ser Pro Cys Ala		
260	265	270
Cys Asn Arg Val Ser Pro Ser Val		
275	280	

<210> 19  
<211> 188  
<212> PRT  
<213> Mouse

<400>	19		
Met Ala Leu Cys Ala Arg Ala Ala Leu	Leu Leu Gly Val Leu Gln Val		
1	5	10	15
Leu Ala Leu Leu Gly Ala Ala Gln Asp Pro Thr Asp Ala Gln Gly Ser			
20	25	30	
Ala Ser Gly Asn His Ser Val Leu Thr Ser Asn Ile Asn Ile Thr Glu			
35	40	45	
Asn Thr Asn Gln Thr Met Ser Val Val Ser Asn Gln Thr Ser Glu Met			
50	55	60	
Gln Ser Thr Ala Lys Pro Ser Val Leu Pro Lys Thr Thr Leu Ile			
65	70	75	80
Thr Val Lys Pro Ala Thr Ile Val Lys Ile Ser Thr Pro Gly Val Leu			
85	90	95	
Pro His Val Thr Pro Thr Ala Ser Lys Ser Thr Pro Asn Ala Ser Ala			
100	105	110	
Ser Pro Asn Ser Thr His Thr Ser Ala Ser Met Thr Thr Pro Ala His			
115	120	125	
Ser Ser Leu Leu Thr Thr Val Thr Val Ser Ala Thr Thr His Pro Thr			
130	135	140	
Lys Gly Lys Gly Ser Lys Phe Asp Ala Gly Ser Phe Val Gly Gly Ile			
145	150	155	160
Gly Val Asn Thr Gly Ser Phe Ile Tyr Ser Leu His Trp Met Gln Asn			
165	170	175	
Val Leu Phe Lys Lys Arg His Ser Val Pro Lys His			
180	185		

<210> 20  
<211> 317  
<212> PRT  
<213> Mouse

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<400> 20
Met Arg Ser Gly Ala Leu Trp Pro Leu Leu Trp Gly Ala Leu Val Trp
      5          10          15
Thr Val Gly Ser Val Gly Ala Val Met Gly Ser Glu Asp Ser Val Pro
      20          25          30
Gly Gly Val Cys Trp Leu Gln Gln Gly Arg Glu Ala Thr Cys Ser Leu
      35          40          45
Val Leu Lys Thr Arg Val Ser Arg Glu Glu Cys Cys Ala Ser Gly Asn
      50          55          60
Ile Asn Thr Ala Trp Ser Asn Phe Thr His Pro Gly Asn Lys Ile Ser
      65          70          75          80
Leu Leu Gly Phe Leu Gly Leu Val His Cys Leu Pro Cys Lys Asp Ser
      85          90          95
Cys Asp Gly Val Glu Cys Gly Pro Gly Lys Ala Cys Arg Asn Ala Gly
      100         105         110

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Gly Ala Ser Asn Asn Cys Glu Cys Val Pro Asn Cys Glu Gly Phe Pro  
115 120 125  
Ala Gly Phe Gln Val Cys Gly Ser Asp Gly Ala Thr Tyr Arg Asp Glu  
130 135 140  
Cys Glu Leu Arg Thr Ala Arg Cys Arg Gly His Pro Asp Leu Arg Val  
145 150 155 160  
Met Tyr Arg Gly Arg Cys Gln Lys Ser Cys Ala Gln Val Val Cys Pro  
165 170 175  
Arg Pro Gln Ser Cys Leu Val Asp Gln Thr Gly Ser Ala His Cys Val  
180 185 190  
Val Cys Arg Ala Ala Pro Cys Pro Val Pro Ser Asn Pro Gly Gln Glu  
195 200 205  
Leu Cys Gly Asn Asn Asn Val Thr Tyr Ile Ser Ser Cys His Leu Arg  
210 215 220  
Gln Ala Thr Cys Phe Leu Gly Arg Ser Ile Gly Val Arg His Pro Gly  
225 230 235 240  
Ile Cys Thr Gly Gly Pro Lys Phe Leu Lys Ser Gly Asp Ala Ala Ile  
245 250 255  
Val Asp Met Val Pro Gly Lys Pro Met Cys Val Glu Ser Phe Ser Asp  
260 265 270  
Tyr Pro Pro Leu Gly Arg Phe Ala Val Arg Asp Met Arg Gln Thr Val  
275 280 285  
Ala Val Gly Val Ile Lys Ala Val Asp Lys Lys Ala Ala Gly Ala Gly  
290 295 300  
Lys Val Thr Lys Ser Ala Gln Lys Ala Gln Lys Ala Lys  
305 310 315

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